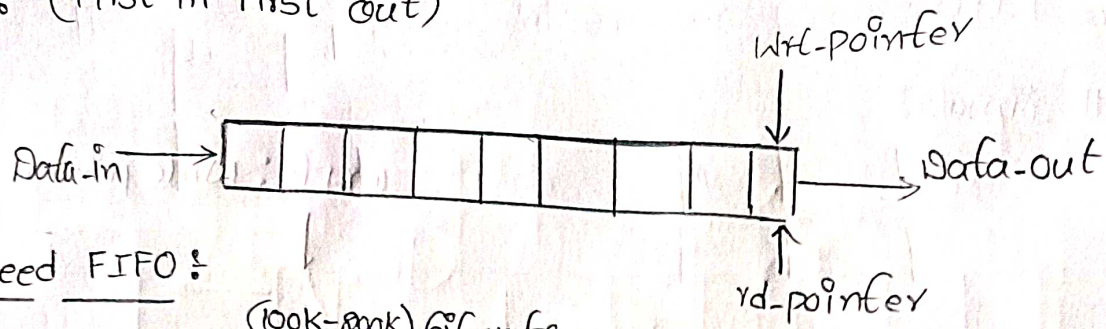
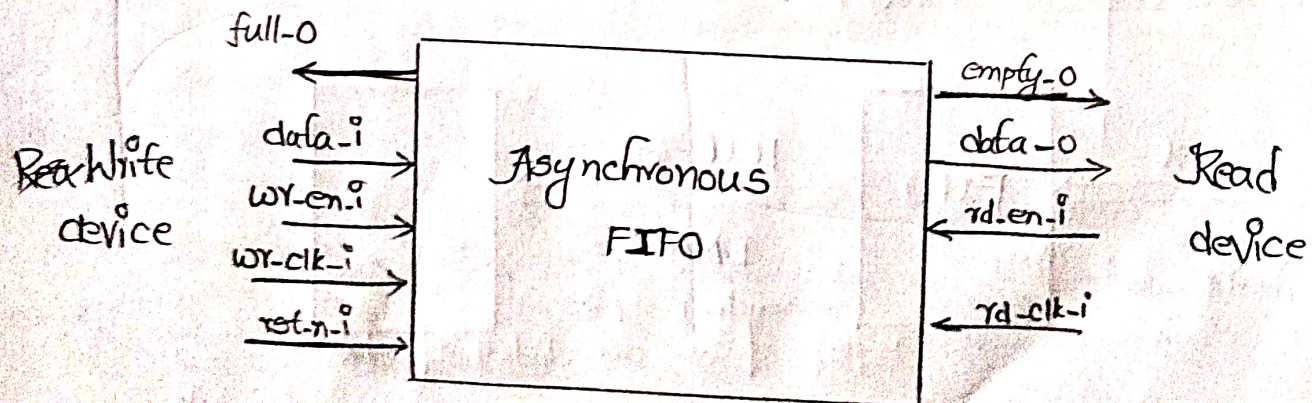
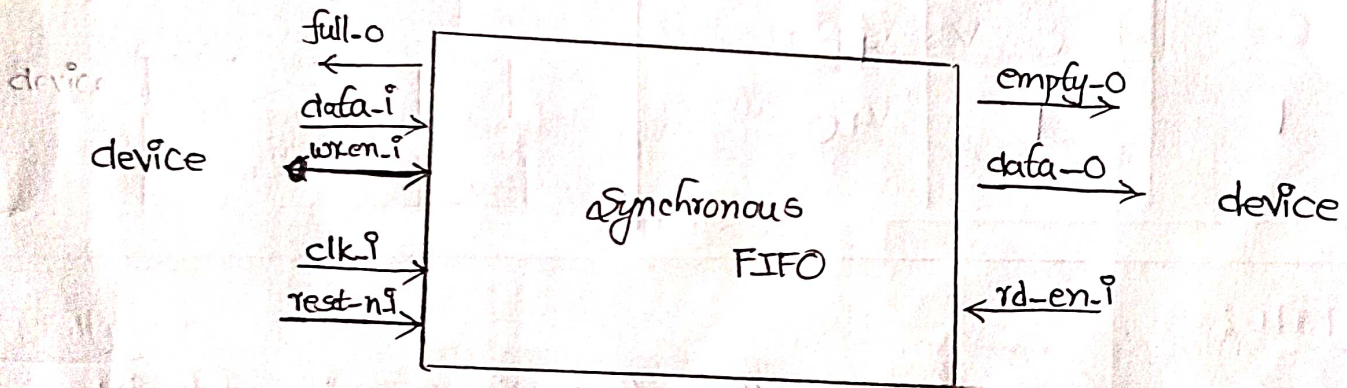
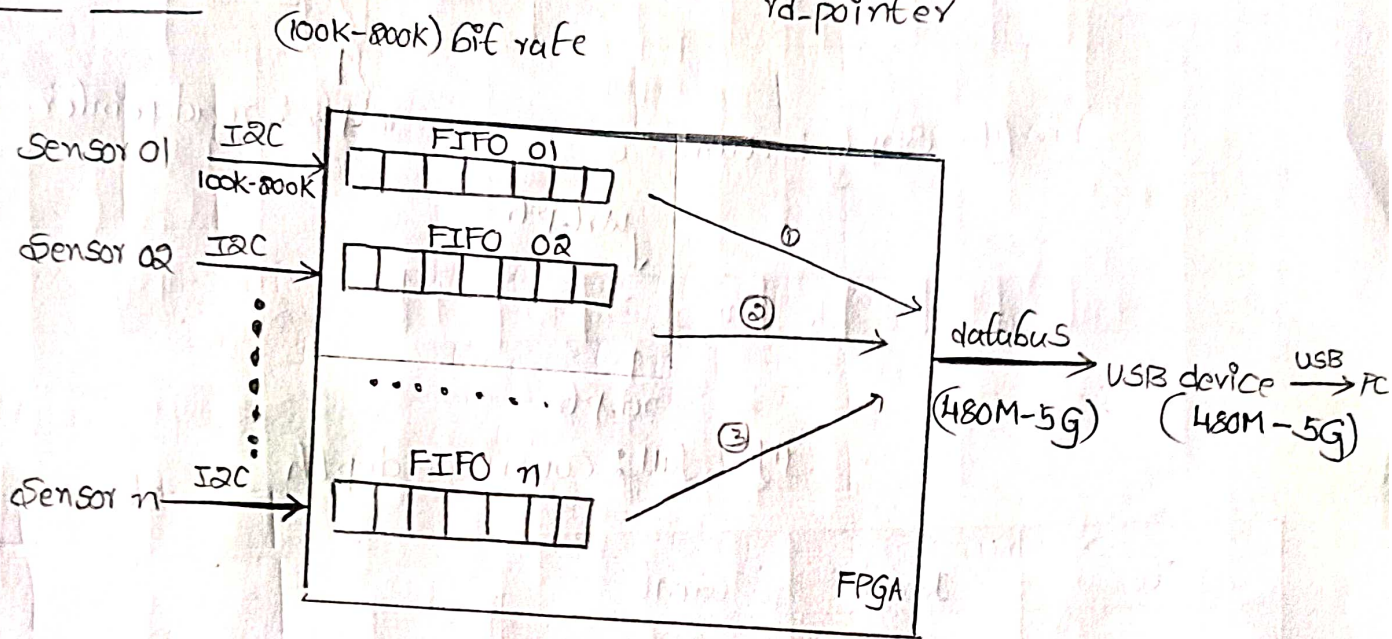


FIFO ÷ (First in First out)

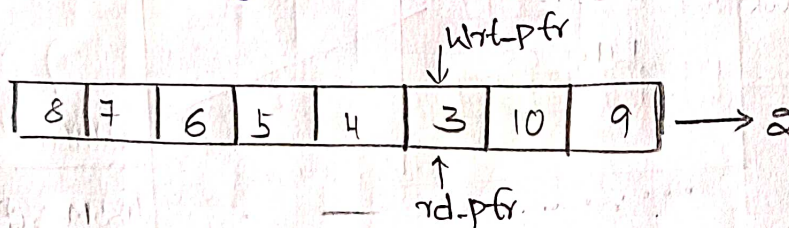
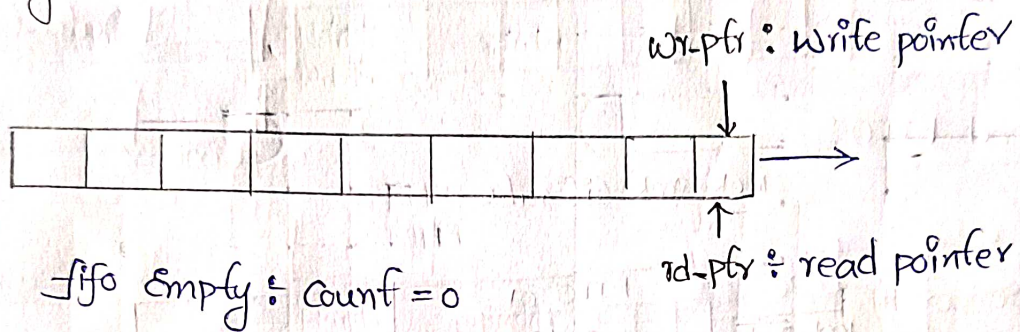


Why we need FIFO:



Synchronous FIFO:

Empty & Full Signals:



fifo full: count == depth

| write | read | count |
|-------|------|-------|
| 1 | 0 | +1 |
| 0 | 1 | -1 |
| 0 | 0 | +0 |
| 1 | 1 | +0 |